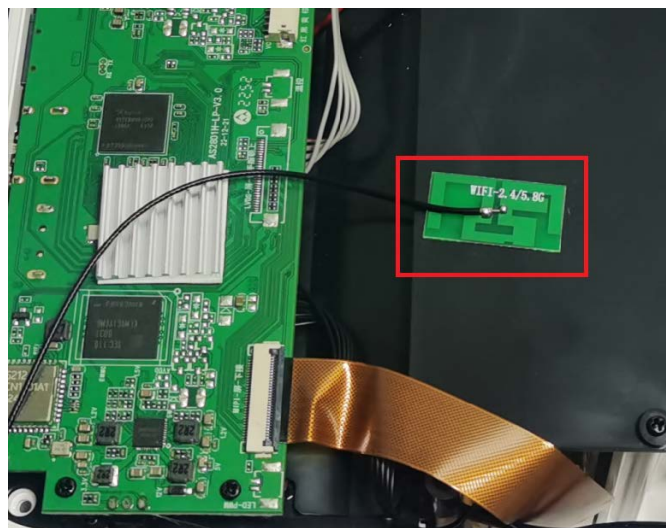


SPECIFICATION FOR APPROVAL

CUSTOMER (客户名称)	Dongguan Zhi film technology Co., LTD	
CS P/N(客户机种)		
PART NAME (品名)	2.4~2.5GHz&5.15~5.85GHz	
FREQUENCY (频率)	2.4~2.5GHz&5.15~5.85GHz	
Model No. (料号)	ANT-F2400X-15001	
RTANT NO. (物料编号)	K220-10025-A	
DATE (日期)	2019.08.08	
出样签章		
APPROVED BY 核准	CHECKED BY 确认	DRAWED BY 制作
黄龙保	宋逸锋	刘云海
Remark (备注):		
客户承认签章		
APPROVED BY 核准	CHECKED BY 确认	TESTED BY 检测
Sign(客户确认签字盖章): _____		

1. Product picture



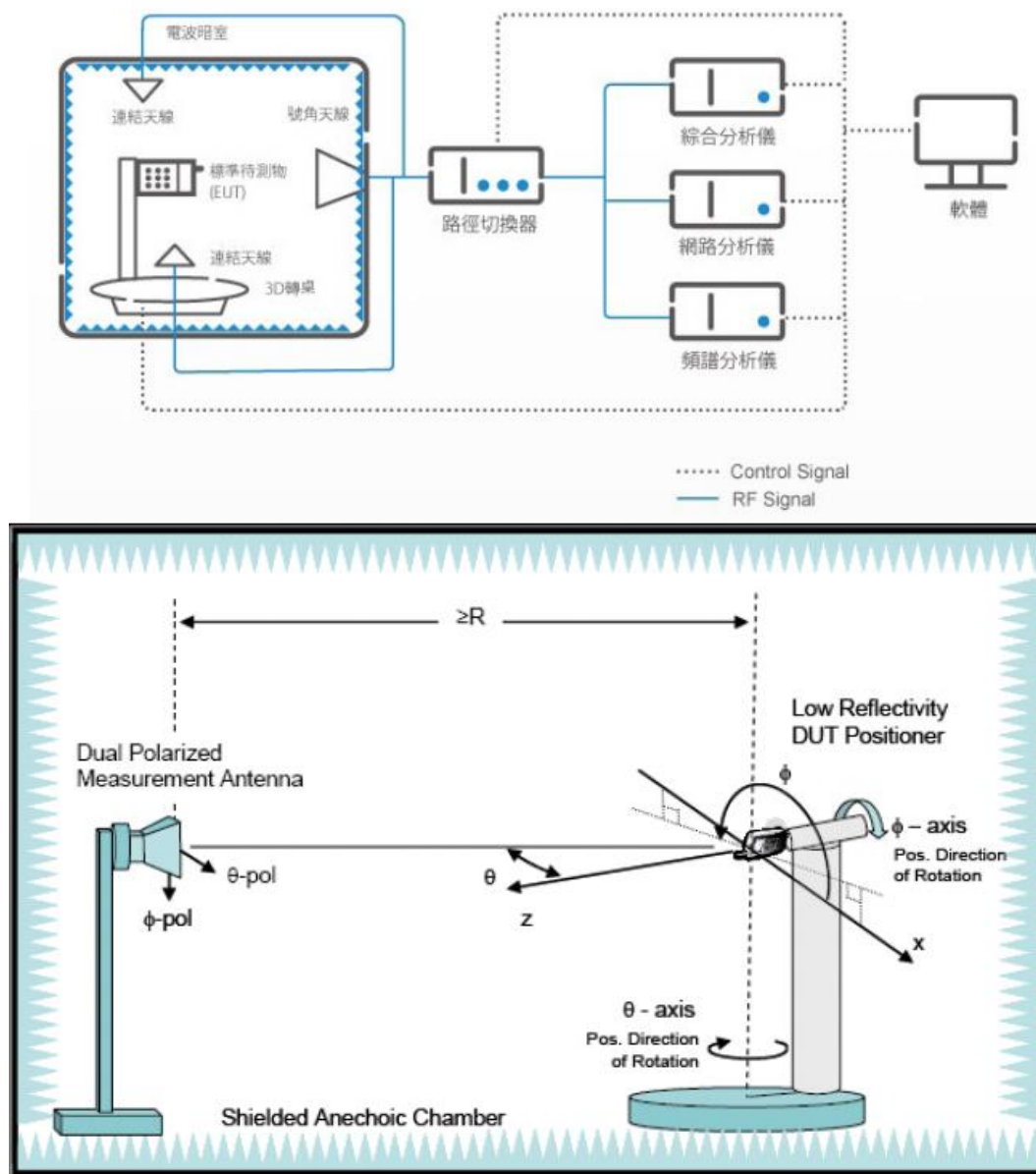
2. Specification

A. Electrical Properties	
Frequency Rang频段范围	2.4-2.5GHz&5.15-5.85GHz
Impedance特性阻抗	50 Ω Nominal
VSWR电压驻波比	2.0Max. (带机壳)
Gain(peak)增益 (峰值)	2.0dBi
Efficiency效率	>40%
Out of roundness不圆度	3.0 dBi (Max.)
Radiation辐射方式	Omni-Directional/全向
Polarization极化方式	Linear Vertical/垂直
B. Physical Properties	
Connector Type连接方式	一代IPEX
Cable线材	Φ 1.13mm
Antenna Radiator天线振子体	
C. Environmental	
Storage Temp存储环境范围	-10℃~+60℃
Operating Temp工作环境	-40℃~+65℃
Storage humidity存储湿度	95%
Working humidity工作湿度	5%~95%

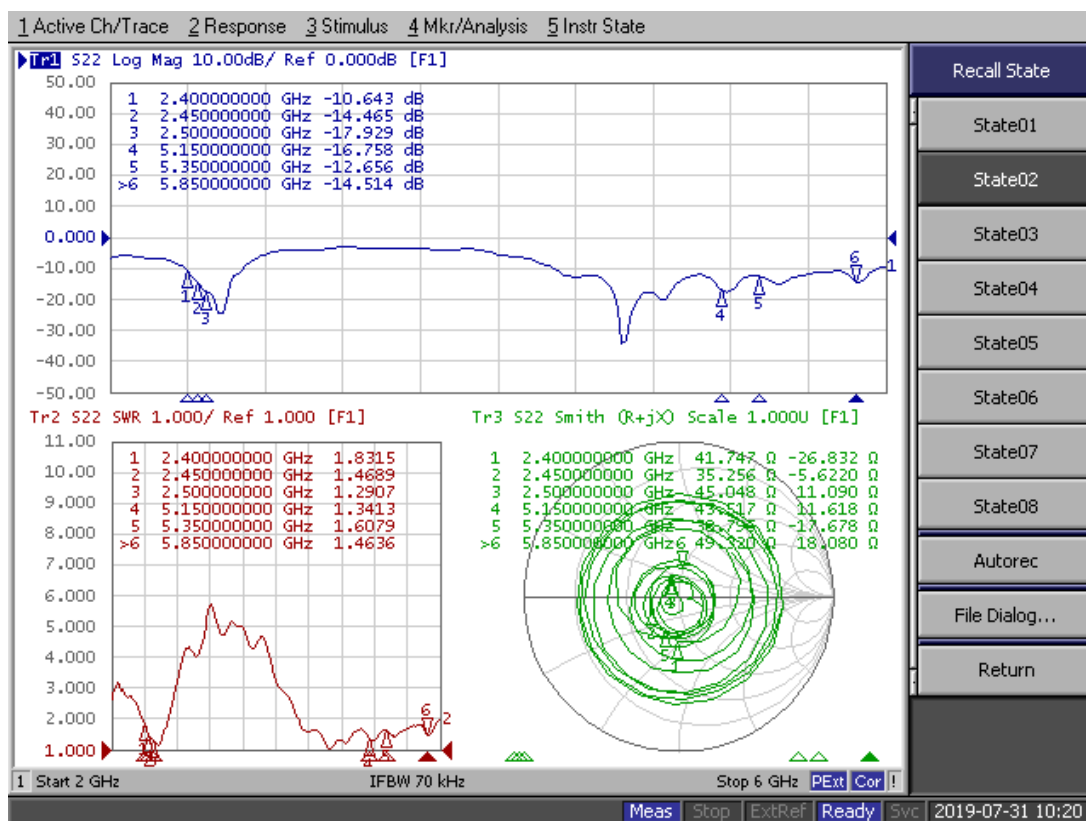
3. Electrical Test Report

3.1 Test equipment

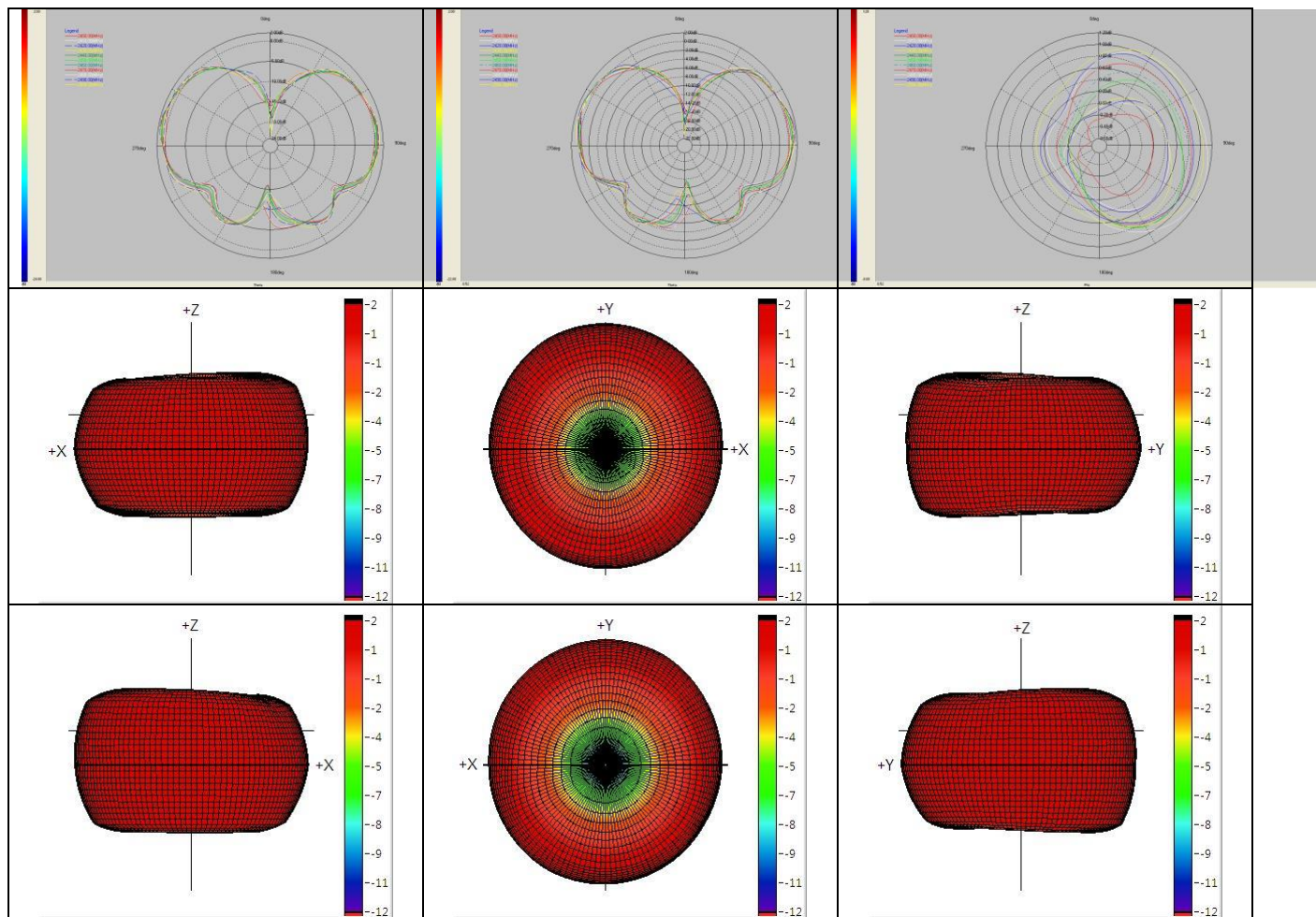
OTA 系統架構圖



4. Network analyzer test report



5. Darkroom 2D, 3DRaditation Pattern



6. Dark room passive test data

频率(Mhz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
效率 (%)	70.54	75.31	74.92	72.6	68.52	67.09	67.62	64.99	59.18
增益 (dBi)	1.78	1.93	2.06	1.93	1.64	1.28	1.12	0.83	0.32

频率(Mhz)	5100	5200	5300	5400	5500	5600	5700	5800	5900
效率 (%)	43.57	40.18	46.56	48.55	49.81	46.99	43.95	41.88	36.64
增益 (dBi)	0.94	2.49	3.19	1.34	2.55	4.27	2.57	1.6	2.63